

## Chapter 5

### Best Management Practices

This chapter gives details on several innovative stormwater BMPs. For each technology, this section provides information on BMP general description, target contaminants, applications, installation and maintenance considerations, relative cost, performance, existing installations located in New Hampshire, and manufacturer contact information. The information in this chapter should be used in conjunction with professional site assessment and engineering plans and should not be a substitute for professional consultation.

Table 5.1. Technology description summaries including target contaminants, cost range, NH Installation, ranking and page number.

	Technology	Target Contaminants	Cost Range	NH Installation (Y/N)	Verification Ranking	Page
<b>Swirl Separators</b>	BaySaver	<ul style="list-style-type: none"> <li>suspended sediment</li> <li>free oils</li> <li>floating debris</li> </ul>	\$3,000 - \$8,000/acre drainage area	Yes	●●	5-1
	CDS Unit	<ul style="list-style-type: none"> <li>trash &amp; debris</li> <li>vegetative material</li> <li>coarse sediment</li> </ul>	\$15,700 - \$61,800/unit	Yes	●●●	5-4
	Downstream Defender	<ul style="list-style-type: none"> <li>settleable solids</li> <li>floatables, oil &amp; grease</li> </ul>	\$10,200 - \$29,600/unit	Yes	●●●●	5-8
	Stormceptor	<ul style="list-style-type: none"> <li>oil &amp; grease</li> <li>sediment</li> </ul>	\$7,600 - \$33,560/unit	Yes	●●●●●	5-11
	Vortechs	<ul style="list-style-type: none"> <li>sand, settleable debris</li> <li>hydrocarbon-laden sediment</li> <li>petroleum-based liquids</li> <li>floatables</li> </ul>	\$8,900 - \$40,000/ unit	Yes	●●●●●	5-13
	HYDRASEP	<ul style="list-style-type: none"> <li>oil &amp; grease</li> </ul>	\$9,000/unit	No	●●●	5-16
	AquaSwirl	<ul style="list-style-type: none"> <li>sediment</li> <li>oil &amp; grease</li> </ul>	\$7,500 - \$28,000/unit	No	0	5-19
<b>Retrofit Constructed Wetland Device</b>	StormTreat	<ul style="list-style-type: none"> <li>solids, metals</li> <li>oil &amp; grease</li> <li>phosphorus</li> <li>bacteria</li> </ul>	\$7,500 - \$15,000/acre impervious drainage area	Yes	●●●●●	5-23
<b>Filtration Systems</b>	AquaFilter	<ul style="list-style-type: none"> <li>sediment, debris &amp; oil</li> <li>hydrocarbons</li> <li>phosphorus &amp; nitrogen</li> <li>VOCs, PCBs, metals</li> </ul>	\$25,000 - \$69,000/unit + replacement filter bags	No	●●●●	5-26
	StormFilter	<ul style="list-style-type: none"> <li>TSS</li> <li>soluble metals</li> <li>soluble phosphorus, nitrates</li> <li>oil &amp; grease</li> </ul>	\$15,000 - \$30,000+ /unit	No	●●●●	5-29

Table 5.1. (continued). Technology description summaries including target contaminants, cost range, NH Installation, ranking and page number.

	Technology	Target Contaminants	Cost Range	NH Installation (Y/N)	Verification Ranking	Page
<b>Patented Vegetated Swale</b>	Howland Swale	<ul style="list-style-type: none"> <li>flow control</li> <li>silts</li> </ul>	\$400 - \$600/ installation	No	●●	5-32
<b>Catch Basin Systems</b>	Ultra-Urban Filter	<ul style="list-style-type: none"> <li>oil &amp; grease</li> <li>trash</li> <li>sediment</li> </ul>	\$250 - \$590/unit + various part costs	No	●●●●	5-35
	StreamGuard	<ul style="list-style-type: none"> <li>oil</li> <li>sediment</li> <li>trash &amp; debris</li> </ul>	\$64.00 - \$93.00/unit + \$560 - \$820/unit for inserts	Yes	●●●●	5-38
	AquaGuard	<ul style="list-style-type: none"> <li>coarse sediment</li> <li>trash/debris</li> <li>dissolved oil</li> <li>nutrients</li> <li>metals</li> </ul>	\$1,500 - \$3,500/unit	No	0	5-42
	DrainPac	<ul style="list-style-type: none"> <li>debris</li> <li>solids</li> </ul>	No standard size, priced filter medium	No	0	5-45
	Fossil Filter	<ul style="list-style-type: none"> <li>sediment</li> <li>trash/debris</li> <li>hydrocarbons</li> <li>heavy metals bound to sediment</li> </ul>	Avg. \$500/unit, \$40.00 for replacement filter medium	Yes	●●●●	5-48
	Grate Inlet Skimmer Box	<ul style="list-style-type: none"> <li>sediment</li> <li>trash/debris</li> <li>hydrocarbons</li> </ul>	\$695 - \$995/unit	No	●●●●	5-51
	Hydro-Kleen	<ul style="list-style-type: none"> <li>hydrocarbons</li> <li>sediment</li> <li>organically-bound metals</li> <li>PCBs pesticides</li> <li>VOCs, sulfides</li> </ul>	\$2,000/unit +\$400 for replacement filter media	No	●●●	5-54
	Inceptor	<ul style="list-style-type: none"> <li>oils &amp; grease</li> </ul>	\$625 - \$1,100/unit + filter pillow replacement (\$69 -\$89/unit)	No	●●●●	5-57
<b>High Efficiency Sweepers</b>	Schwarze Sweeper	<ul style="list-style-type: none"> <li>debris down to 2.5-micron</li> </ul>	\$185,000 - \$225,000/unit	No	●●●●	5-59
	TYMCO sweeper	<ul style="list-style-type: none"> <li>trash</li> <li>debris</li> </ul>	\$60,000 - \$175,000	Yes	●●●●	5-62

0 - no study conducted or no current information available      ●●● - third party-conducted, laboratory study  
 ● - manufacturer-conducted, laboratory study      ●●●● - third party-conducted, field study  
 ●● - manufacturer-conducted, field study      ●●●●● - accepted review of product claim